

ABSTRACT

A wireless communication apparatus and a receiving scheme selection method are provided for improved overall system throughput. SIR measurer (106) measures the SIR
5 of a known signal. Doppler frequency detector (108) detects the Doppler frequency from the received signal and measures the Doppler shift amount. The Doppler shift amount serves as an indicator of the moving speed of the mobile station apparatus. Interference power measurer
10 (110) measures interference power from other cells. Known signal obtainer (104), SIR measurer (106), Doppler frequency detector (108), and interference power measurer (110) constitute a propagation environment estimator in this embodiment. Based on the SIR, Doppler shift amount,
15 and interference power, receiving scheme selector (112) selects a receiving scheme of either RAKE reception or linear equalization.